

CLAIMS

1. A timing belt comprising:
a wave glide surface extending in a longitudinal direction of said belt, said wave glide surface having an apex portion and a base portion.
2. A timing belt according to claim 1, wherein said belt includes teeth, said teeth having a plurality of tooth ribs and tooth grooves.
3. A timing belt according to claim 2, wherein said teeth extend the entire side-to-side lateral length of said belt.
4. A timing belt according to claim 2, wherein said teeth of said belt are located on an opposite surface of the belt as compared with said wave glide surface.
5. A timing belt according to claim 2, wherein said apex portion of said wave glide surface is adjacent to said grooves of said teeth.
6. A timing belt according to claim 2, wherein the belt includes a slot and a belt body, said slot being located within said belt body adjacent to said tooth grooves.
7. A timing belt according to claim 1, further comprising at least one channel, said channel being provided on said wave glide surface.
8. A timing belt according to claim 2, further comprising at least one channel, said channel being provided on said wave glide surface.
9. A timing belt according to claim 7, wherein said channel also extends along a longitudinal direction of said belt.
10. A timing belt according to claim 7, wherein said channel has a geometric curve on said wave glide surface.
11. A timing belt comprising:
a tracking guide that extends in a longitudinal direction of said belt; and

a wave glide surface also extending in a longitudinal direction of said belt, said wave glide surface having an apex portion and a base portion.

12. A timing belt according to claim 11, wherein said tracking guide has a height that is greater than the height of said apex of said wave glide surface.

13. A timing belt according to claim 1, wherein said belt includes teeth, said teeth having a plurality of tooth ribs and tooth grooves.

14. A timing belt according to claim 13, wherein said teeth of said belt are located on an opposite surface of the belt as compared with said wave glide surface.

15. A timing belt according to claim 13, wherein said apex portion of said wave glide surface is adjacent to said grooves of said teeth.

16. A timing belt according to claim 11, further comprising at least one channel, said channel being provided on said wave glide surface.

17. A timing belt according to claim 13, further comprising at least one channel, said channel being provided on said wave glide surface.

18. A timing belt according to claim 11, wherein said tracking guide is adjacent to said wave glide surface.

19. A timing belt according to claim 16, wherein said channels have sloped sides.

20. A timing belt according to claim 16, wherein said channels have a geometric curve.

21. A timing belt according to claim 20, wherein said geometric curve is substantially a sinusoidal curve.

22. A timing belt according to claim 20, wherein said geometric curve is a spiral curve.

23. A timing belt comprising:

a wave glide surface extending in a longitudinal direction of said belt, said wave glide surface having an apex portion and a base portion;

a tracking guide that also extends in a longitudinal direction of said belt;

a plurality of teeth, said teeth having a plurality of tooth ribs and tooth grooves; and

at least one channel, said channel being disposed within a surface of said wave glide surface for holding and dispersing an agent.

24. A timing belt according to claim 23, wherein said teeth extend the entire side-to-side of said lateral lanes of said belt.

25. A timing belt according to claim 23, wherein said teeth of said belt are located on opposite sides of the belt as compared with said wave glide surface.

26. A timing belt according to claim 23, wherein said apex portion of said wave glide surface is adjacent to said grooves of said teeth.

27. A timing belt according to claim 23 wherein the belt includes a slot and a belt body, said slot being located with in said belt body adjacent to said tooth grooves.

28. A timing belt according to claim 23, wherein at least one channel is provided on said wave glide surface.

29. A timing belt assembly comprising:

a belt; and

a slider bed, said slider bed having a cross-sectional sinusoidal surface, said sinusoidal surface coming in contact with said belt.

30. A timing belt assembly according to claim 29, further comprising a tracking guide.

31. A timing belt assembly according to claim 29, further comprising a channel for housing and dispersing an agent, said channel being disposed on said belt.

32. A timing belt assembly according to claim 29, further comprising a channel, said channel being disposed on said slider bed.

33. The timing belt assembly according to claim 29, further comprising teeth.

34. A timing belt comprising:
a slider bed;
a belt extending in a longitudinal direction
and having at least two surfaces remote from one in another,
wherein one of said surfaces is adapted for making contact
with said surfaces; and
at least one channel disposed on and extending
along said contacting surface of said belt in a longitudinal
direction, said channel adapted for housing and dispersing an
agent.